

4.2.G. 0603000309.

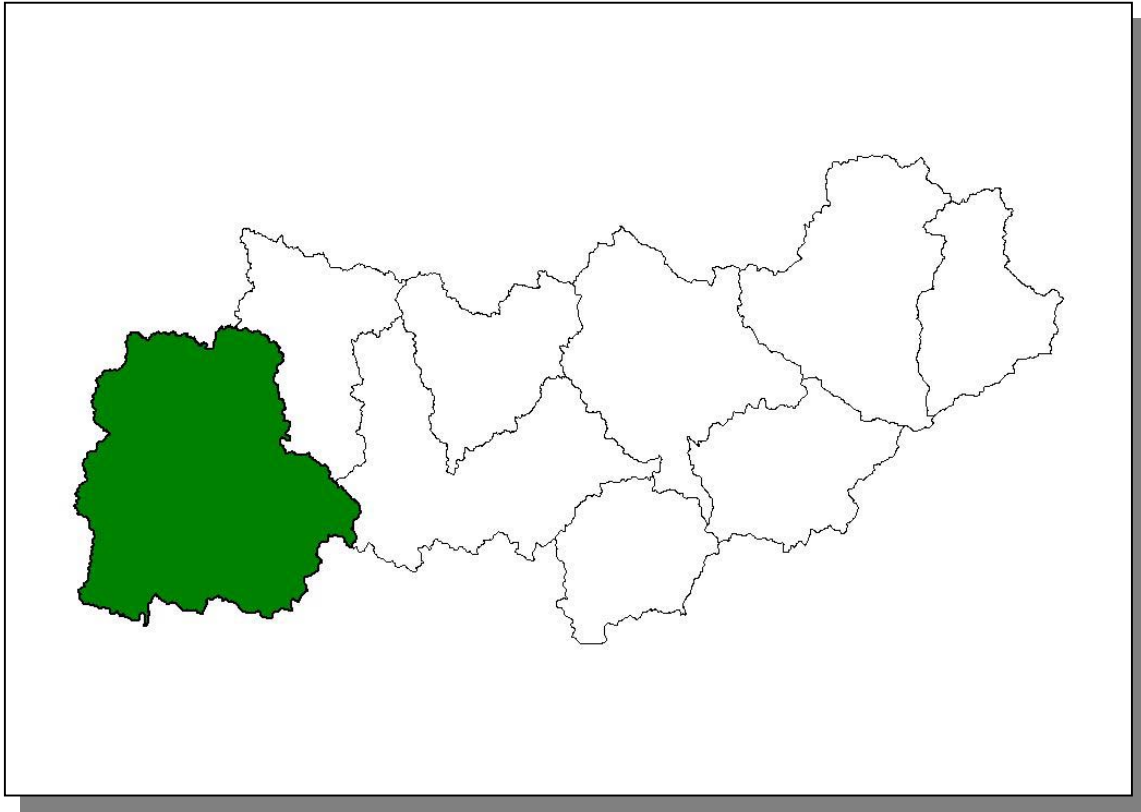


Figure 4-92. Location of Subwatershed 0603000309. All Upper Elk HUC-10 subwatershed boundaries are shown for reference.

4.2.G.i. General Description.

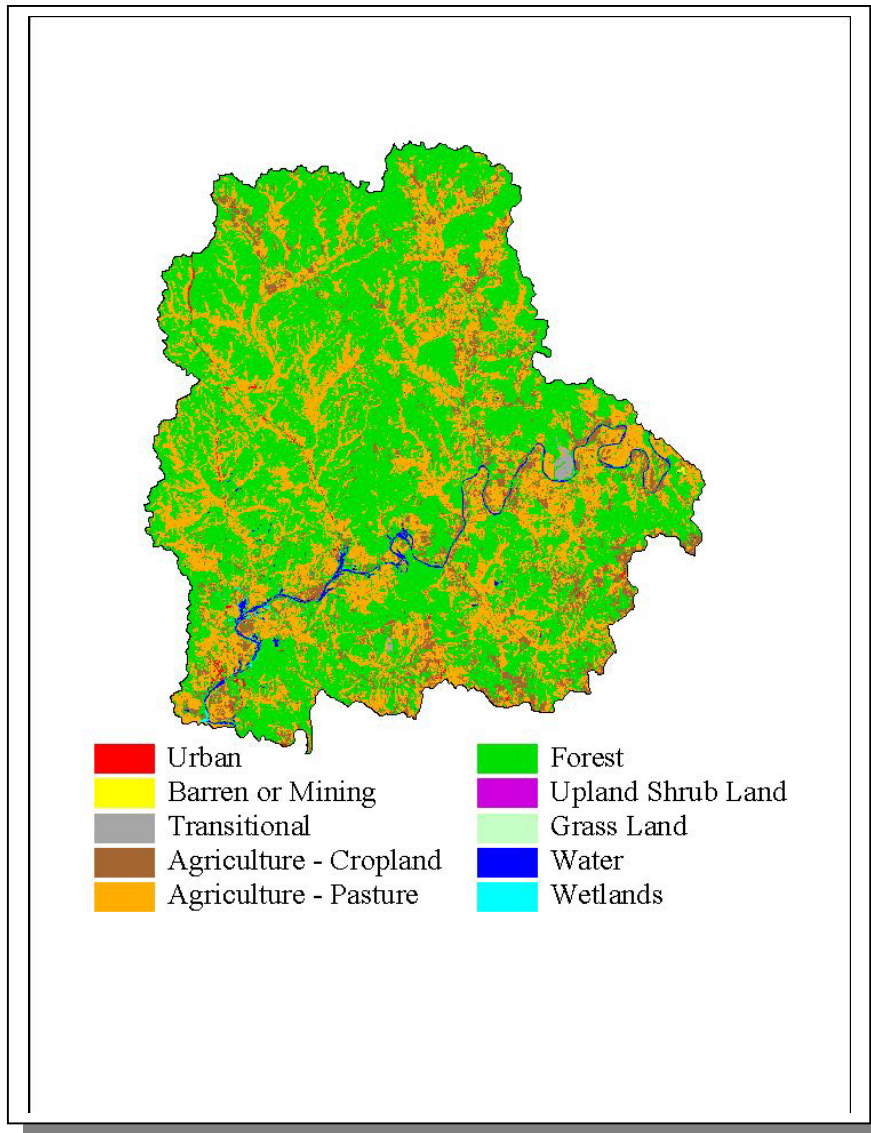


Figure 4-93. Illustration of Land Use Distribution in Subwatershed 0603000309.

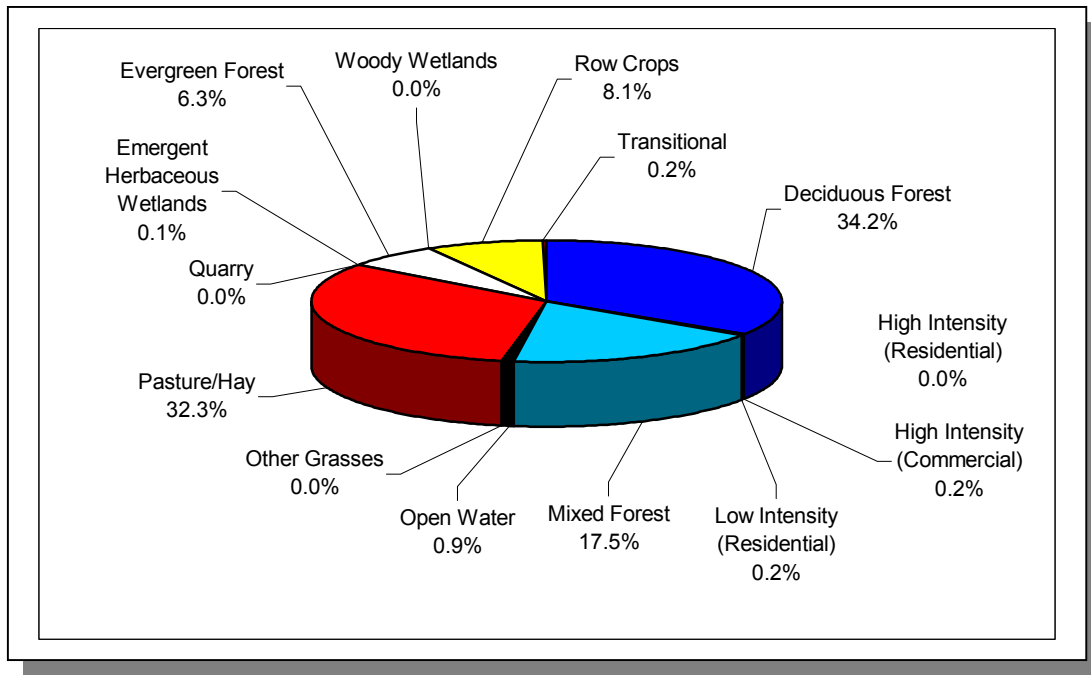


Figure 4-94. Land Use Distribution in Subwatershed 0603000309. More information is provided in Upper Elk-Appendix IV.

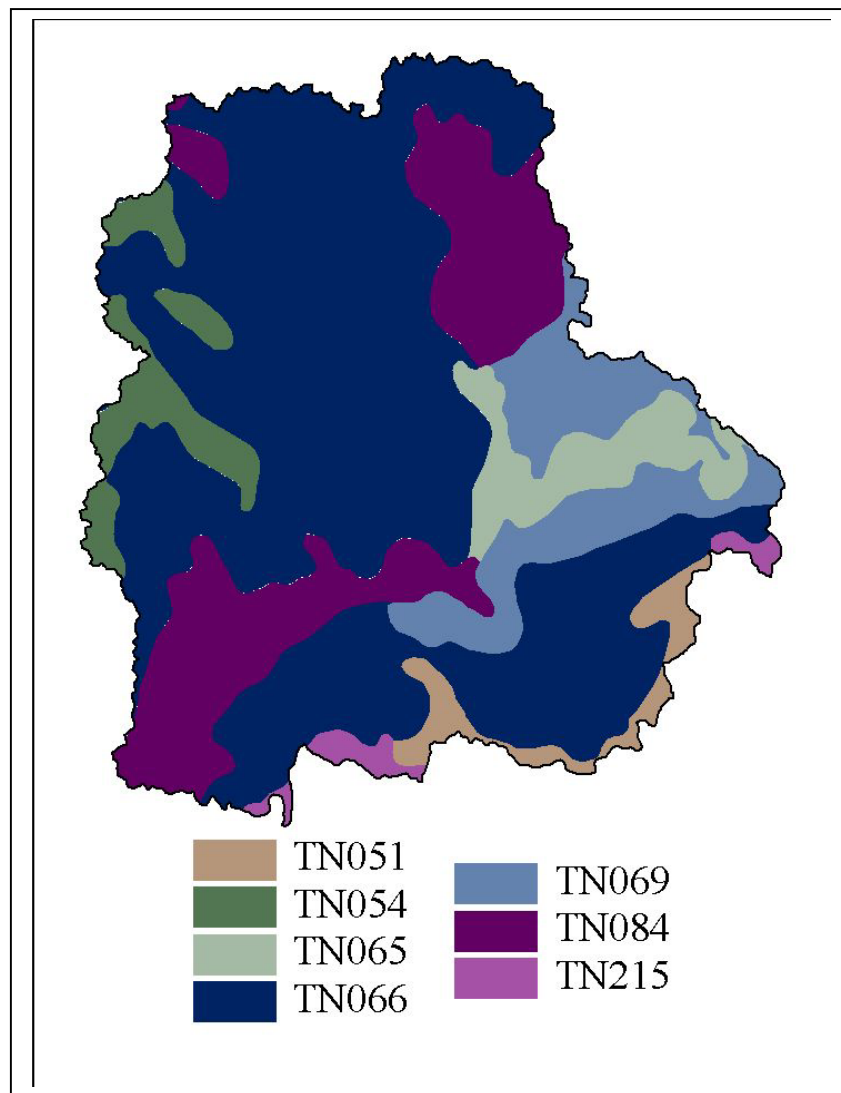


Figure 4-95. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0603000309.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hr)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN051	1.00	C	1.73	5.44	Loam	0.33
TN054	0.00	C	3.04	4.84	Loam	0.32
TN065	0.00	C	1.15	5.52	Loam	0.32
TN066	0.00	B	2.62	4.75	Loam	0.28
TN069	0.00	C	2.06	5.36	Loam	0.34
TN084	0.00	C	1.80	4.99	Silty Loam	0.28
TN215	9.00	C	1.57	5.02	Silty Loam	0.39

Table 4-54. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0603000309. More information is provided in Upper Elk-Appendix IV.

County	COUNTY POPULATION		Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED		% CHANGE
	1990	1997 Est.		1990	1997	
Giles	25,741	28,515	13.95	3,592	3,979	10.8
Lincoln	28,157	29,336	31.21	8,788	9,156	4.2
Marshall	21,539	25,687	2.69	579	691	19.3
Totals	75,437	83,538		12,959	13,826	6.7

Table 4-55. Population Estimates in Subwatershed 0603000309.

NUMBER OF HOUSING UNITS						
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Ardmore	Giles	828	342	191	150	0
Elkton	Giles	463	184	1	183	0
Total		1,291	526	192	333	0

Table 4-56. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0603000309.

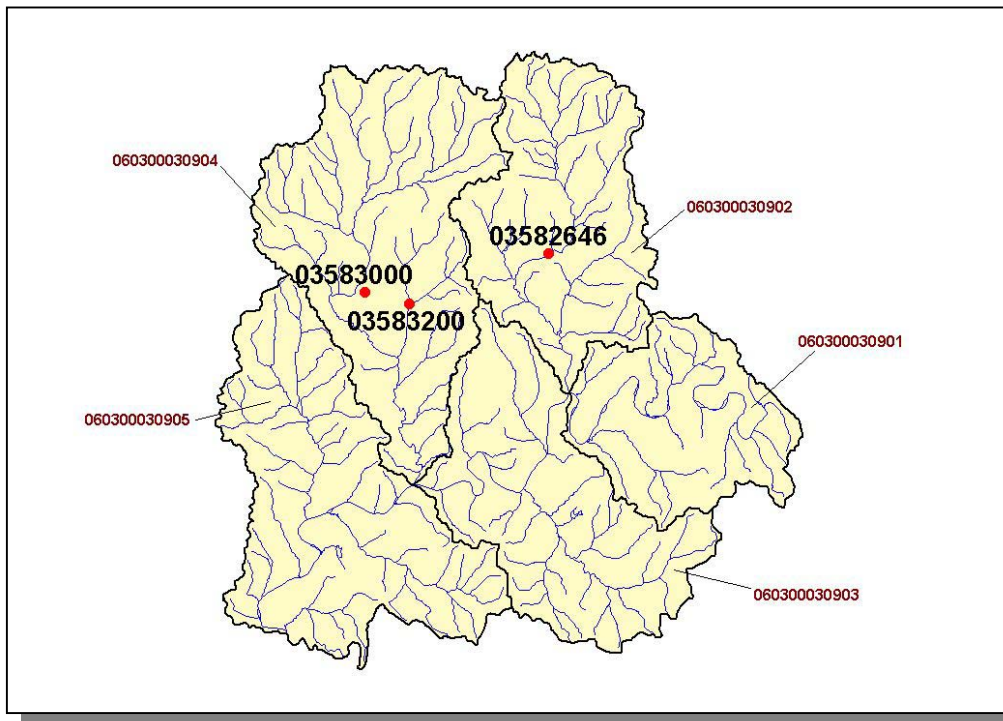


Figure 4-96. Location of Historical Streamflow Data Collection Sites in Subwatershed 060300030909. Subwatershed 060300030901, 060300030902, 060300030903, 060300030904, and 060300030905 boundaries are shown for reference. More information is provided in Upper Elk-Appendix IV.

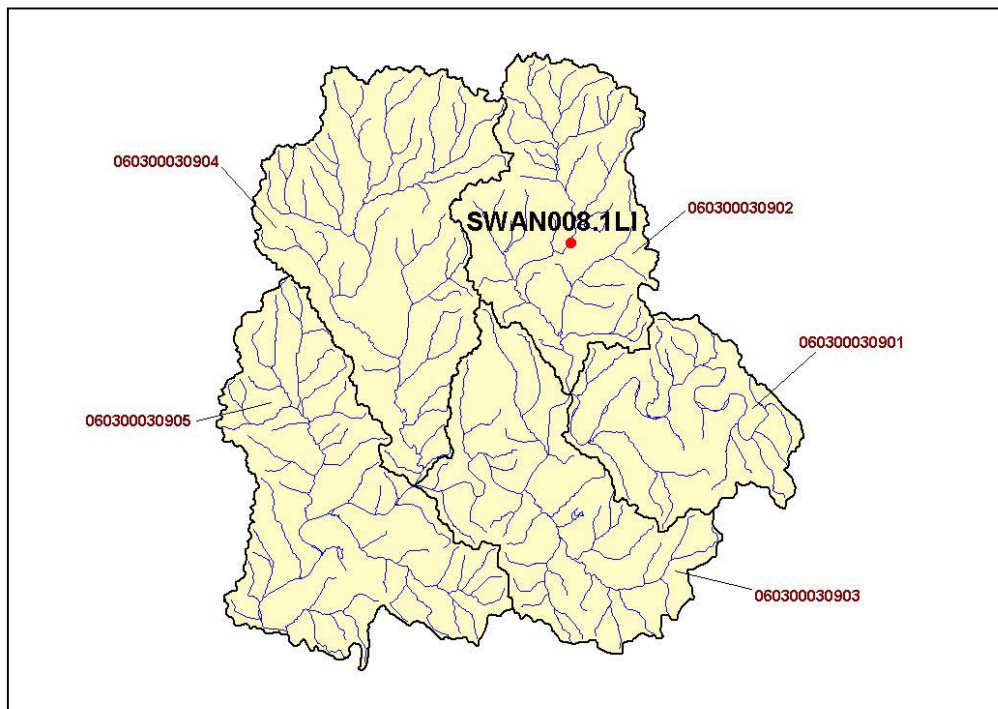


Figure 4-97. Location of STORET Monitoring Sites in Subwatershed 060300030909. Subwatershed 060300030901, 060300030902, 060300030903, 060300030904, and 060300030905 boundaries are shown for reference. More information is provided in Upper Elk-Appendix IV.

4.2.G.ii. Point Source Contributions.

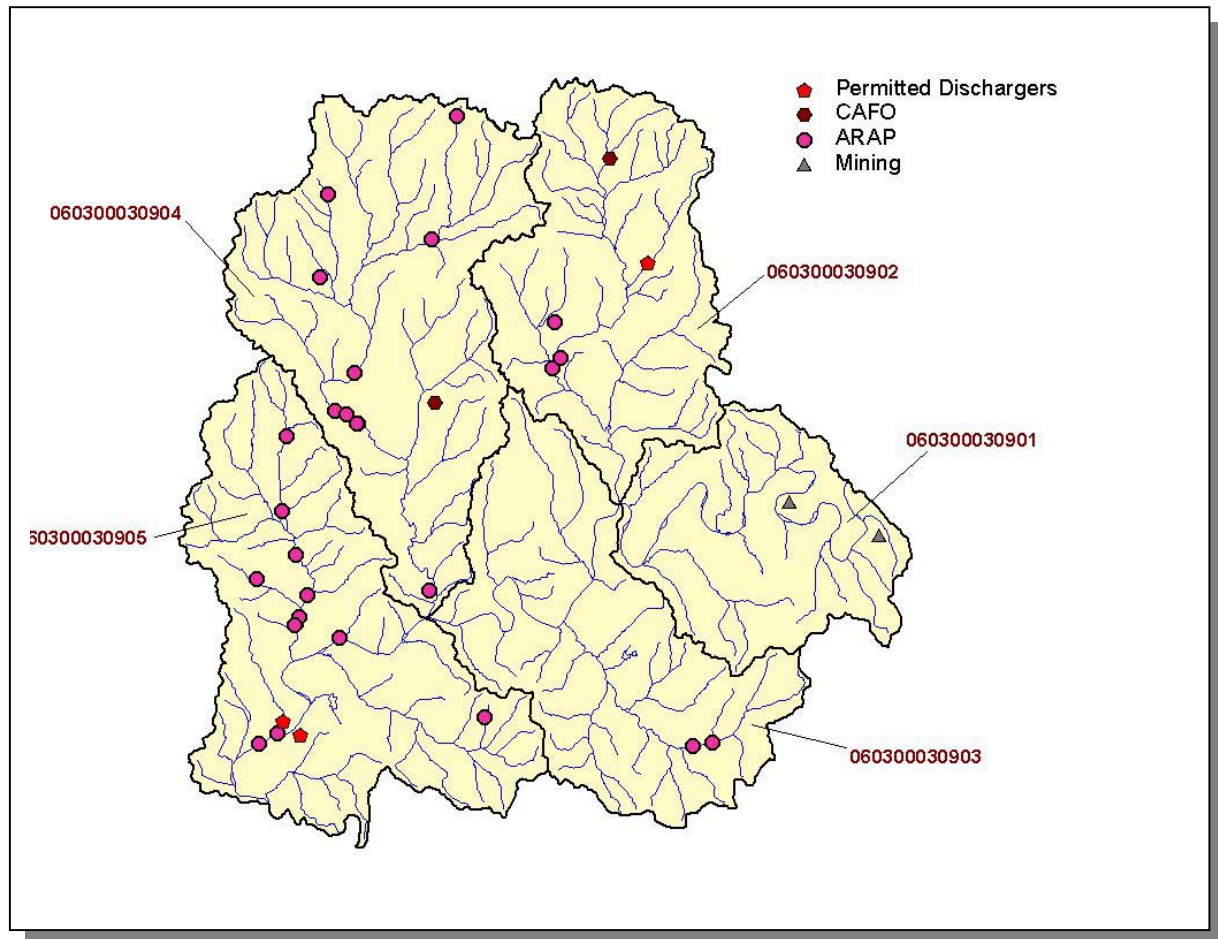


Figure 4-98. Location of Active Point Source Facilities in Subwatershed 0603000309. Subwatershed 060300030901, 060300030902, 060300030903, 060300030904, and 060300030905 boundaries are shown for reference. More information is provided in the following charts.

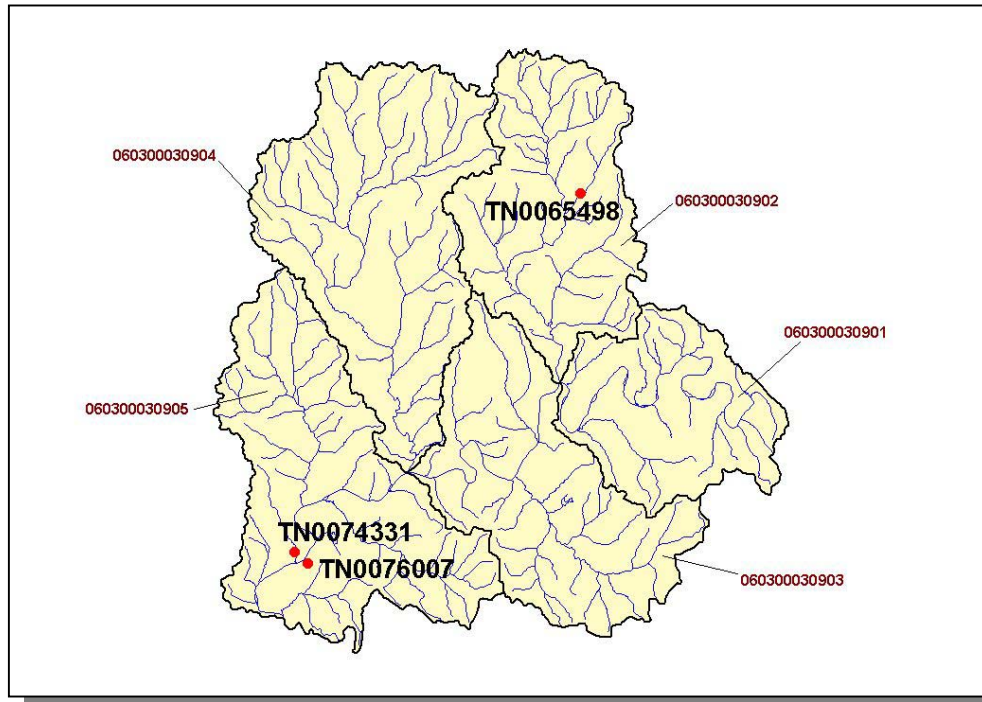


Figure 4-99. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 0603000309. Subwatershed 060300030901, 060300030902, 060300030903, 060300030904, and 060300030905 boundaries are shown for reference. More information, including the names of facilities, is provided in Upper Elk-Appendix IV.

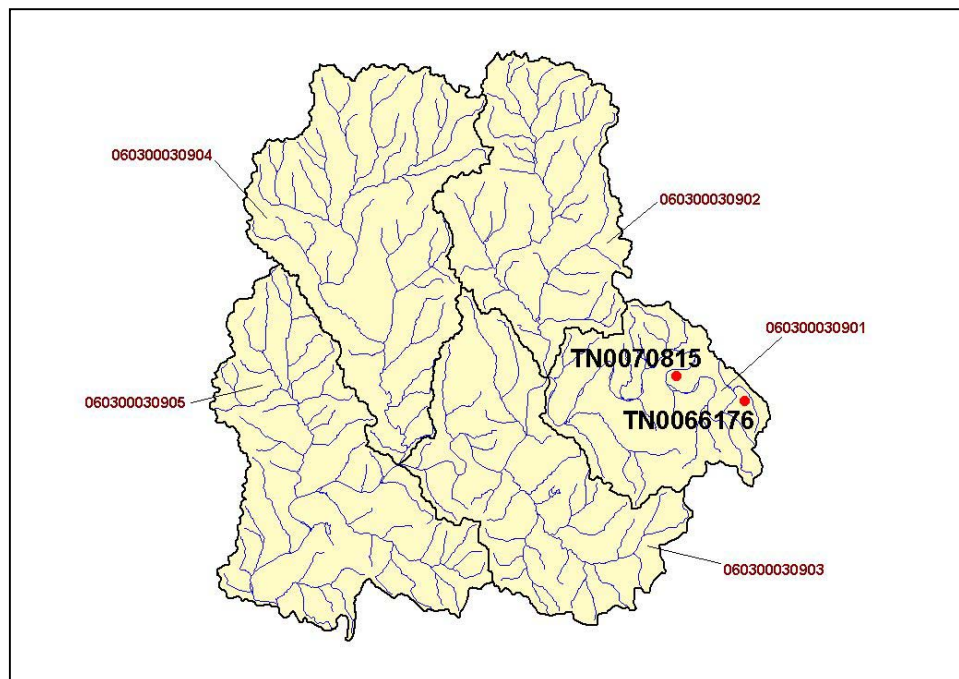


Figure 4-100. Location of Active Mining Sites in Subwatershed 0603000309. Subwatershed 060300030901, 060300030902, 060300030903, 060300030904, and 060300030905 boundaries are shown for reference. More information, including the names of facilities, is provided in Upper Elk-Appendix IV.

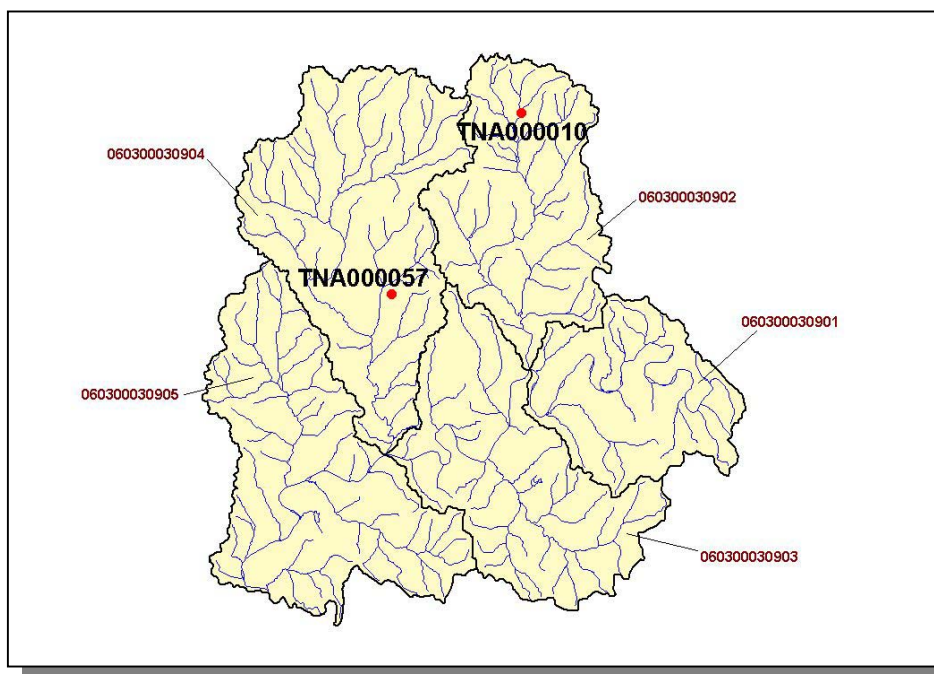


Figure 4-101. Location of CAFO Facilities in Subwatershed 0603000309. Subwatershed 060300030901, 060300030902, 060300030903, 060300030904, and 060300030905 boundaries are shown for reference. CAFO rules may be found at <http://cfpub.epa.gov/npdes/afo/cafofinalrule.cfm>. More information, including the names of facilities, is provided in Upper El-Appendix IV.

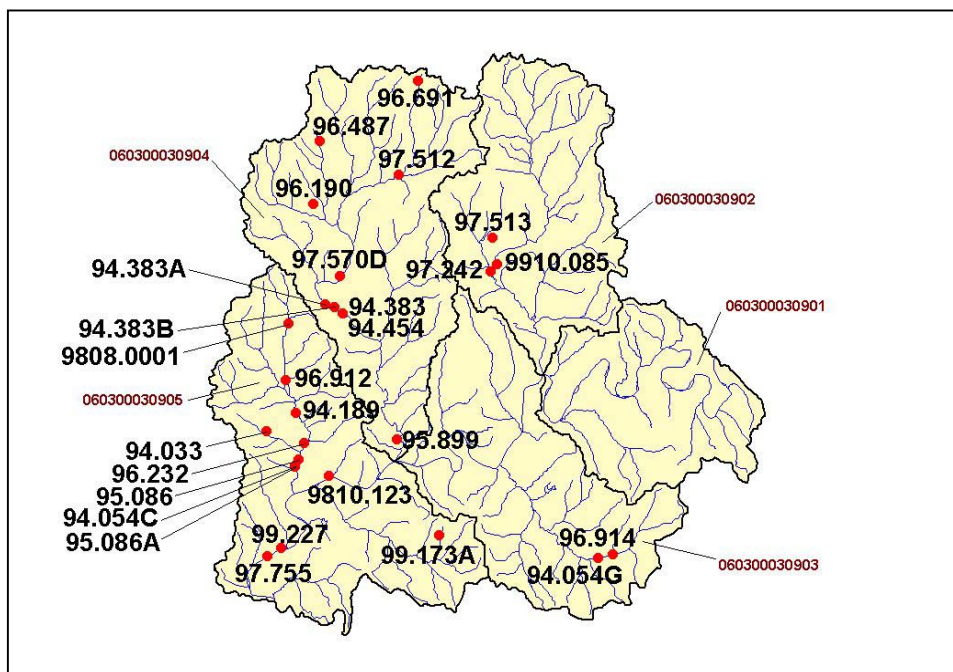


Figure 4-102. Location of ARAP Sites (Individual Permits) in Subwatershed 0603000309. Subwatershed 060300030901, 060300030902, 060300030903, 060300030904, and 060300030905 boundaries are shown for reference. More information, including the names of facilities, is provided in Upper El-Appendix IV.

4.2.G.ii.a. Dischargers to Water Bodies Listed on the 1998 303(d) List

There is one NPDES facility discharging to water bodies listed on the 1998 303(d) list in Subwatershed 0603000309:

- TN0065498 (Unity Junior High School) discharges to Morton Branch @ RM 1.0

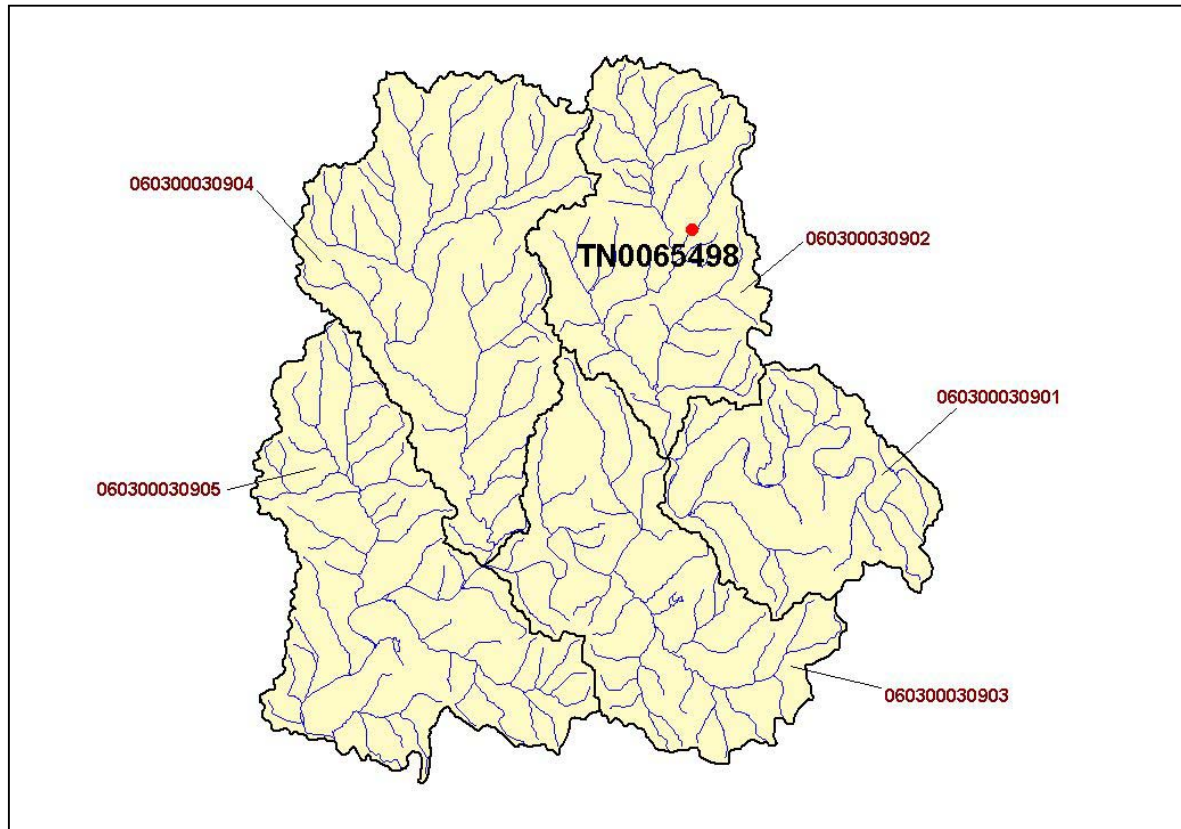


Figure 4-103. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 0603000309. Subwatershed 060300030901, 060300030902, 060300030903, 060300030904, and 060300030905 boundaries are shown for reference. More information, including the names of facilities, is provided in Upper Elk-Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0065498			0.00		0.0072

Table 4-57. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0603000309. Data are in million gallons per day (MGD). Data were obtained from the USGS publication *Flow Duration and Low Flows of Tennessee Streams Through 1992* or from permit files.

PERMIT #	E. Coli	CBOD ₅	pH	NH ₃	TRC	DO	TSS
TN0065498	X	X	X	X	X	X	X

Table 4-58. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0603000309. TCR, Total Residual Chlorine; TSS, Total Suspended Solids.

PERMIT #	Flow	FECAL COLIFORM
TN0065498	X	X

Table 4-59. Parameters Monitored by NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0603000309.

4.2.G.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens	Chickens Sold	Hogs	Sheep
20,456	43,843	2,406	49	1,508,236	4,425	260

Table 4-60. Summary of Livestock Count Estimates in Subwatershed 0603000309. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Giles	171.8	171.8	3.3	11.4
Lincoln	136.7	136.7	1.1	3.2
Totals	308.5	308.5	4.4	14.6

Table 4-61. Forest Acreage and Average Removal Rates (1987-1994) in Subwatershed 0603000309.

CROPS	TONS/ACRE/YEAR
Grass (Hayland)	0.22
Legume (Hayland)	0.14
Legume/Grass (Hayland)	0.36
Grass (Pastureland)	1.09
Grass, Forbs, Legumes (Mixed Pasture)	0.89
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Corn (Row Crops)	4.05
Soybeans (Row Crops)	5.89
Tobacco (Row Crops)	9.27
Potatoes (Row Crops)	3.04
All Other Row Crops	2.70
Conservation Reserve Program Land	0.27
Wheat (Close Grown Cropland)	3.02
Barley (Close Grown Cropland)	1.08
Fruit (Horticultural)	0.09
Other Vegetable and Truck Crops	3.09
Summer Fallow (Other Cropland)	1.21
Other Cropland not Planted	0.25
Other Land in Farms	0.27
Nonagricultural Land Use	0.00
Farmsteads and Ranch Headquarters	0.31

Table 4-62. Annual Estimated Total Soil Loss in Subwatershed 0603000309.